# Volume 33 - Number 32

**BROOKHAVEN NATIONAL LABORATORY** 

#### Contract Ratified

On Monday, members of Local 2230 of the International Brotherhood of Electrical Workers ratified a new contract with AUI which had been agreed to on August 2 by Union and Laboratory officials.

The principal provision of the two-year contract which is effective August 1, 1979, calls for an 8% wage increase the first year and a 6% increase the second year.

In addition, should the pay standard established by the President's Council on Wage and Price Stability increase by an amount up to one percent per annum, the change is automatically applied to the above rates for each year. If the pay standard increases one percent or more, one percent is applied automatically and the Union is given the right to reopen the contract for the purpose of negotiating the balance of the increase, up to the amount permissible by the revised wage guidelines. Any increase due to a change in the pay standard is not effective prior to October 1, 1979. If the contract were reopened, the only subject to be negotiated would be wages.

This year, for the first time, the union membership includes 43 employees of Photography and Graphic Arts as a result of an election held under the jurisdiction of the National Labor Relations Board last December. The other 614 union members are employed in Plant Engineering, Central Shops, Supply & Materiel, Firefighters and

# Robot Draws Record Crowds To BNL Tour

Last Saturday and Sunday 4700 people came to Brookhaven to visit with R2D2 and Darth Vader. They all stayed to see Brookhaven's work in scientific research and tour the Exhibit Center.

This R2D2 is a duplicate of the robot of "Star Wars" fame and was built from a variety of spare parts by two enterprising physics teachers from upstate New York. One of them generally plays Darth Vader, although on this weekend a relative was recruited for the role. The "superstars" proved a big drawing card and the huge weekend crowds had the small BNL staff hopping.

At times during the Sunday tour when more than 3000 people were here, it appeared an impossible task for the 11 people who managed the tours and the bus dispatching, but the day ended normally with nobody stranded or lost and the staff worn but happy

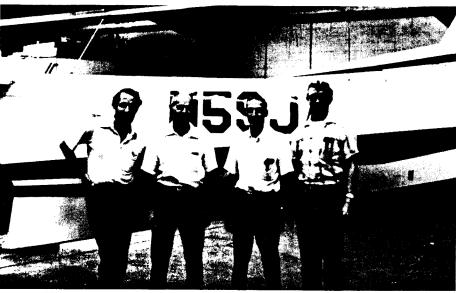
Public Relations Officer Carl Thien praised the way that the Tour Guides and Exhibit Center staff coped with the record number of people. "Everyone improvised and adjusted to the situation. There was no time for a snack or even a glass of soda, and the staff retained its good humor even to the closing minutes."

The mini tour, at the Nuclear Waste Management Research group in the old HIRDL building, had a constant stream of visitors who kept that staff busy with questions and comments about this valuable area of research.

At the Exhibit Center, while R2D2 was giving energy saving tips in his squeaky voice, Darth Vader was giving out autographs to children and adults alike. So many people were using the Shadow Wall on the Life Science level that the flash unit was almost going as fast as a disco strobe light. The Tic Tac Toe computer ran out of paper several times but it too retained its sense of humor and did not go beyond a mild reproof when a visitor tried to win by cheating. "This is an honest game," the computer would print, "Now make a real choice.

The Science Store resembled a Macy's toy department at Christmas time. People lined up to buy gyroscopes, lenses, frisbees and magnets. Others bought books on physics, general science and Long Island's

For the Cafeteria staff of Saga Foods, the (Continued on page 2)



Four of the five members of the Brookhaven flight crew for the NEROS Project are (left to right): Bob Garber, Bob Brown, Cy Fink, and Dan Leahy. Not appearing here is Mary Phillips. Only two researchers fly together at a time, along with the plane's pilot and copilot.

# **NEROS Program Takes Off**

Airborne research is not new to Brookhaven; since 1977 BNL scientists have been studying air pollution patterns under programs such as the Multi-state Atmospheric Power Production Pollution Study (MAP-3S). Brookhaven atmospheric research continues in the month of August with our participation in the Northeast Regional Ozone Study (NEROS). Unlike the MAP-3S program, which primarily studied sulfur pollutants, the NEROS project will focus mainly on atmospheric ozone distribution

Although the study is being conducted under the sponsorship of the Environmental Protection Agency, Brookhaven is extensively involved in the research in two fundamental capacities, explained Bob Garber, the principal BNL investigator on the project. Brookhaven will be providing the Lab's aircraft and all the personnel involved in its operation, and will operate the aircraft control station on the ground.

The operation will work like this: the aircraft will be in constant communication with the control station in building 51. There, a meteorology team, consisting of Gil Raynor, Robert Brown, and Arthur Tingle, and equipped with communications equipment to provide up-to-the-minute meteorological conditions throughout the Northeast, will direct the plane exactly where to fly. "The whole thing is based on meteorology," says Garber, "What winds are blowing, where the winds are expected to come from, what their speeds will be, things of this nature." The flight control center uses a computer to establish a flight pattern which includes locations, times and altitude. Garber says "we don't just go out and fly; we have to get the proper wind conditions in order to conduct the experi-

The flight crew, consisting of Garber, Cy Fink, Dan Leahy, and Mary Phillips, will attempt to follow an air mass as it comes out of the Midwest. "Generally," explained Garber, "Most of the flights are going to be conducted over the state of Pennsylvania. It is a relatively large state, and is on the western boundary of the Ohio River Valley where a lot of the pollutants we are looking for originate." While Washington State University will monitor the western half of this area, Brookhaven will be studying the

On board the airplane will be instruments for measuring various species of pollutants, such as NO, NO2, Ozone (O3), and SO2. The equipment is capable of measuring these materials "as the plane intercepts them," says Garber. "We fly through the system, a sample is taken through these instruments and analyzed immediately by them. The data we gather on the aircraft are put on magnetic tape. They're processed here at the Lab, by our meteorological facility and with the (Cyber) 7600 over at Applied Math." Thus, the plane brings back data, not actual air samples, the only exception to this being hydrocarbon samples. The plane does not contain the necessary equipment to analyze hydrocarbons, so samples are taken of the air in front of the plane (to avoid contamination from the plane's engines), brought back to the Lab, and analysed within 24 to 48 hours. After the data have been put into graphical form, they will be further analysed by Joyce Tichler of Meteorology, John Clarke of EPA, and other modeling scientists. "Hopefully," says Garber, "the end result will be an atmospheric model by which we'll be able to predict what the ozone loading in a city like New York will be under given meteorological situations."

The plane itself is a Britten-Norman Islander, a twin-engine, Short Take-Off and landing (STOL) type aircraft which is

well-suited to this type of research. Although the plane is owned by the Mid-Island Air Service, the Lab uses it on an "exclusive-use" lease, so that all the equipment is installed permanently. In addition to the pilot and copilot, who are provided by Mid-Island Air Service, the plane generally carries two Brookhaven scientists.

#### **Ozone Formation**

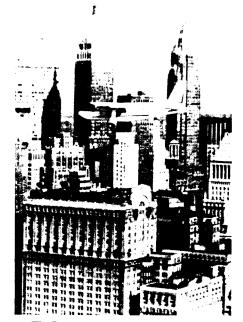
Stuart Levine, a scientist with the Department of Energy and Environment, explained that "one would need something on the order of about 50 reactions to describe the chemistry of ozone formation in the atmosphere." Nevertheless, he says, there are a few simple reactions which can symbolize the most important processes in ozone formation in a general way. The simple scheme would be something like this. First, in a photochemically reactive system such as earth's atmosphere, NO2 which is in the atmosphere undergoes photolysis (breaking up due to light energy) to yield NO and atomic oxygen. This atomic oxygen (O) can then react with molecular oxygen (O<sub>2</sub>) to form ozone (O<sub>3</sub>). Then, the ozone and NO can react to reform NO2 and molecular oxygen. These three basic steps may be summarized as follows:

- 1)  $NO_2 + hv (light) \rightarrow NO + O$
- 2)  $O + O_2 \rightarrow O_3$
- 3)  $NO + O_3 \rightarrow NO_2 + O_2$

The crucial element in this reaction scheme is the concentration of NO2 relative to NO. The higher this ratio, the higher the concentration of ozone in the atmosphere will be.

"Then the real question comes into play," says Levine, "What affects that ratio?" The ratio is generally increased by the conversion of NO to NO2. The main culprits in this respect are hydrocarbons. Hydrocarbons in the atmosphere form species known as radicals, which can oxidize NO to NO<sub>2</sub>, increasing the concentration of the latter relative to the former, and therefore raising the ozone concentration. Hydrocarbons are formed by all the combustion processes man uses, from electric generation plants to automobiles. But even if man did not produce them, there would be a certain natural level of hydrocarbons in the atmosphere. They are produced by plant life, evergreens in particular produce a "considerable amount," says Levine. "So I don't think the earth's atmosphere will ever be without any ozone," says Garber. "The question is, what is this natural ozone level?"

The first people who will actually use the data generated by the NEROS program will be the modeling scientists at the Environmental Protection Agency. They will try to develop guidelines for such areas as what the natural ozone levels are, how far actual ozone levels should be allowed to deviate from these natural levels, and how best to control ozone precursors in the atmosphere. "What EPA wants to assure themselves of," says Garber, "is that they have realistic levels in terms of what the ozone concentration would be anyway, and then how best to control the man-induced changes which affect it." —Bradley Stolzer



The Brookhaven research plane in flight above Manhattan.

#### Ozone: Good And Bad

In discussing ozone, it is important to distinguish between the two roles the compound may play in our atmosphere; it can act as either dangerous pollutant or vital protector of life. The distinction is determined not only by the amount of ozone present, but also where it is present. In the lower atmosphere, ozone is considered a pollutant; this is the ozone that is the target of the NEROS Project. It is the main constituent of the nasty stuff we know as smog. But the ozone found up in the stratosphere is a different matter altogether. There, a certain, natural level of ozone is not only normal, but essential. This is because ozone absorbs a great deal of potentially harmful ultraviolet radiation. "That ozone shield," says Garber, "is what's potentially keeping life on this planet as we know it alive."

This is why many people became concerned about the Supersonic Transport when it was determined that it would contribute high levels of NO to the atmosphere when flying at supersonic speeds. The NO would combine with ozone to form NO2 and molecular oxygen, thus depleting the ozone concentration.

Similarly, the use of chlorofluorocarbon (CFC) propellants in aerosol sprays was halted last year because of a series of reactions believed to take place which would also deplete ozone. In this case, the distinction between the upper and lower atmospheres played a big functional role, explained Levine: the CFC propellants were "pretty inert in the lower atmosphere. They didn't really react with anything, they just sort of diffused up to the upper atmosphere." When they got there, said Garber, the high-energy ultraviolet light would "tear the chlorine atom off the molecule." The chlorine then behaved similarly to the NO described above; it would react with ozone to form ClO and molecular oxygen, again depleting ozone. Manufacturers have since switched to propellants such as CO2 or propane.



Stephanie O'Grady solders sections of stained glass to create one of her leaded stained glass designs.



Phil Miller carves birds and waterfowl.



Tomiko Horii is an expert at Japanese floral arrangements.

The Crafts People . . . . and Their Exhibits . . . .



Stephanie Morris cards fleece which she will spin into yarn. In the background, Debbie Rothman demonstrates the fine art of calligraphy.

# French Film Coming Up

The film "Mr. Hulot's Holiday" (Les Vacances de M. Hulot) will be shown in Berkner Hall at 8 p.m. on Tuesday, August 14. The movie is being sponsored by Le Cercle Français de BNL, which invites all members of the BNL community and their friends to attend. Those who are not members of The French Group of BNL will be asked for a donation of \$1.50 (75¢ for students).

This film, released in 1953, was the first great success of its director and star, Jacques Tati. The plot is minimal - Hulot arrives in his broken-down jalopy to spend his vacation at a slightly seedy seaside resort in Brittany. As is usual in a Monsieur Hulot film, Murphy's Law applies: Anything that can go wrong, does. Unlike real life, the consequences of this are always hilarious. Tati's film style reminds one of the early silent films, with one sight gag piled upon another to produce a crescendo of laughter. The sound track is a polyglot mixture of French, English, and the unrecognizable language one hears in transportation terminals, but the dialogue is not really important. Beneath the surface of Tati's comedy lies a foundation of keen observation and pointed social comment.

Just about one year ago, a large and appreciative audience in Berkner enjoyed Tati's "Playtime." This film is thought to be even better and funnier.

> Fred's birthday is on a Wednesday. Ernic's birthday is on a Saturday. Douggie's birthday is on a Friday. Charlie's birthday is on a Tuesday. Bert's birthday is on a Thursday. All's birthday is on a Sunday. solution To Puzzler

#### Robot

crisis point was reached on Saturday when supplies of rolls for hamburgers became dangerously low and had to be replenished from local groceries. On Sunday with the extra supplies used up, the final resort was to serve hamburgers on plain bread.

Bus drivers were constantly on the move, most of the time with standees, and riding with doors and windows open to try to beat the heat. On Saturday, the problem was to avoid getting drenched by the torrents of rain, and many times a tour guide would enter the bus soaking wet from running through the rain from one group to another. At the height of Saturday's storm, the thunder and lighting provided the background of a seeming intergalactic war for the performance of R2D2 and Darth Vader.

Tomorrow and Sunday, although R2D2 will be off on other business, visitors can expect to see Darth Vader once again leaping out of the dark corners of the Exhibit Cen-

# Microprocessor Club

The Microprocessor Club meeting will not be held on Tuesday, August 14. However, on Tuesday, August 28, an engineer from Motorola will present a detailed talk on the 6800 and 6809 from 9 a.m. to 12 noon, and on the 68000 from 1:30 p.m. to 5 p.m. in the Hamilton Seminar Room, Chemistry Building.

#### Nursery School

A few places are left in the four-year-old classes of the Upton Nursery School. Both two-day and three-day sessions are open. For information, call the enrollment chairperson, Kassie Ruth, 744-2444.

#### A Puzzler:

(Cont'd)

#### The Birthweek

Alf, Bert, Charlie, Douggie, Ernie, and Fred have their birthdays on consecutive days, but not necessarily in that order.

Douggie's birthday is as many days before Alf's as it is after Fred's. Charlie's birthday is as many days before Fred's as Bert's is after Fred's. This year Ernie's birthday is on a Saturday.

On what day of the week do the birthdays of the other 5 men fall this year?

The solution will be found elsewhere in this issue. If you need to know how it was arrived at, a copy of the explanation can be had by calling Ext. 2345.

-from A Diversity of Puzzles by E.R. Emmet. Reprinted with permission from Harper & Row, Publishers, Inc.

#### **Arrivals & Departures**

#### Arrivals

Enrique E. Abola	Chemistry
Rodulfo A. Alforque	
Bettie L. Evans	Biology
Theodore J. Krawiec	Energy & Env.
Gary L. Krieger	
Brian J. Morris	Accelerator
Gary E. Struve	Chemistry
Ashok N. Vaswani	Medical

#### **Departures**

Sharon Dobbs	Nuclear Energ
Mark E. Hofmann	
Laurie H. Rhodes	Applied Math
Laurie B. Sweeney	Nuclear Energ
Robert M. Tomacheski	Plant Engrg
Leonard Katcher	Plant Engrg

### Colorful Crafts

Don't forget to catch the first BNL employees Crafts Exhibition before it closes at noon on Tuesday, August 14. The show, sponsored by BERA, includes over fifty exhibits created by employees and displaying a wide range of talents. Besides the crafts pictured here, the Exhibition contains examples of weaving, quilting, pottery, leather, and some unusual art forms as well. Two of the show stealers are models. One, by Per Dahl, is an unfinished scale model of the U.S.S. Constitution. Constructed of hull planking spruce, deck planking bass, and birch, the builder has already spent some 2000 hours on the intricate model, and he's only half finished. Equally impressive is the other model, a 1:10 scale replica of a Dutch steam locomotive. The locomotive contains a working boiler and actually runs, although the builder, Tom Oversluizen, is reluctant to run this one because the coal needed to do so soils its beautiful finish. The exhibition is in Berkner Hall and will be open from 9 to 5 until Tuesday.

# Theatre Group Tryouts

The BERA Theatre Group will hold tryouts for a fall production of "Otherwise Engaged," an award-winning contemporary comedy by Simon Gray which played on Broadway and in the West End of London a couple of seasons ago. Interested, aspiring players are invited to audition either Monday, August 13, or Wednesday, August 15, at 8 p.m. in Berkner Hall.

#### Cafeteria Menu

#### Week Ending August 17, 1979

• •	•	
Monday, August 13		
Tomato vegetable soup	(cup)	.30
	(bowl)	.40
Macaroni and cheese & 1 ve	g.	1.15
Grilled ham steak & 1 veg.		1.45
Hot Deli - Pastrami	(on bread)	1.30
	(on roll)	1.40
Tuesday, August 14		
French onion soup	(cup)	.30
-	(bowl)	.40
Vegetarian omelette & fr. fr.		1.25
Meatloaf and hash browns		1.30
Hot Deli - Corned beef	(on bread)	1.40
	(on roll)	1.50
Wednesday, August 15		
Pepper pot soup w/spaetzle	(cup)	.40
	(bowl)	.50
Tuna noodle casserole		1.25
Southern fried chicken w/co	rn friters	1.35
Hot Deli - Veal pattie & peppers hero		1.30
Thursday, August 16		
Chicken noodle soup	(cup)	.30
	(bowl)	.40
Pork and cabbage crisp		1.35
Manicotti and 1 veg.		1.25
Hot Deli -		
Baked Virginia ham	(on bread)	1.30
	(on roll)	1.40
Friday, August 17		
Manhattan clam chowder	(cup)	.40
	(bowl)	.50
Fish filet cheese melt & 1 veg		1.40
Hot chili con carne w/corn b	read	1.40
Hot Deli - Sandwich steak	(on bread)	1.40
	(on roll)	1.50

#### Reports Available

The following reports are now available to the Laboratory Staff and to Affiliates of the DOE, AUI, and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161. Staff members should call Ext. 3484.

BNL-50829

The Longitudinal Coupling Impedance Of A Double-Step Cross Section Change In the Vacuum Chamber. P. Guidee, et al

BNL-50836 Less Developed Countries Energy System Network Simulator LDC-ESNS. A. Reisman et al The Endangered Species Act And Energy Facility Planning: Compliance And Conflict. D.

Shreeve, et al

BNL-50854 Solidification Of Simulated Transuranic Contaminated Incinerator Ash Wastes Using Portland Type 1 Cement. R.M. Neilson, Jr., et el BNL-NUREG-50859

A Single-Phase Pump Model For Analysis Of LMFBR Heat Transport Systems. I.K. Madni,

Brookhaven Bulletin August 10, 1979

# BROOKHAVEN

Published weekly for the employees of

**BROOKHAVEN NATIONAL LABORATORY** 

BERNICE PETERSEN, Editor ANNE BAITTINGER, Staff Writer

40 Brookhaven Ave., Upton, N.Y. 11973 Telephone (546) 345-2345

CARL R. THIEN, Public Relations Officer

#### Service Awards

The following employees will receive service awards during the month of August, 1979:

#### Thirty Years

Fredrick H. Kuhn	Accelerator
William A. Rogers	Contracts & Proc.
Charles F. Ruege	Nuclear Energy
Frank J. Rumph	Physics

#### Twenty-Five Years

John L. Batdorf.....Safety & Env. Prot. Marilyn H. McKeown Physics

#### **Twenty Years**

Joseph Bauernfeind	Accelerator
John G. Bennett	Plant Engrg.
Mary A. Hughes	Accelerator

#### Ten Years

Ruth Faine	Applied Math.
Kenneth P. Mohring.	Medical

#### Summer Rec Program

**On-Site Program** 

At last Friday's "Olympic day" a program of many races and contests kept the children busy for two strenuous hours. Victors included: Marathon Race - Jeremy Rothman, Leah Lande, Steve Monna; 40 Yd. Dash - Keita Okumura, Leah Lande, Steve Monna; Softball Throw - Brian Glashow, Evan Christenson, Jason Glashow; Discus Throw - Stephan Richner, Leah Lande, David Lande; Long Jump -Katherine Hampel, Doug Kirsch, Rinar Schachner; Wheelbarrow Race - Mina Inone/Eva Markovits, Doug Kirsch/ Evan Christenson, Ronen Arbel/Stephan Mon-

This week's special - Halloween Day.

Next Thursday at 5:00 p.m. for children and their parents - International Picnic. Next Friday - Carnival Day.

#### **Swimming Pool**

Everyone went home happy from last Friday's special, which featured relay races. The winners were:

4-6 year olds

Kevin Byrne, Dennis Byrne, Yuvall Arbel. 7-9 year olds

Karen Ingoglia, Lisa Kantor, Einat Arbel.

10 years and older Merissa Holden, Greg Holden Megan Hol-

den, Rusty Mills This week's special - ping-pong ball/

spoon and cup races.

Next week - balloon races.

#### Tennis

Despite the heat and threatening rains, Coach Ingoglia's tennis tournament has been under way this week with many exciting matches. Winners will be announced in next week's Bulletin.

#### Football

Football season is almost here again. For those who are not aware, BNL has a Touch Football League. The games are played at the BERA Recreation field on Monday and Thursday evenings at 5:20. The season runs from the beginning of September to the end of October. There is no blocking, and limited body contact, so all ages can play with little fear of being injured. Game rules and entry blanks can be obtained at the Film Service Office located in the Cafeteria. New teams are welcome. If you do not have a team but want to play, we have a player's pool. For further information contact Ed Taylor at Ext. 4126.

#### No Gas Required



Phil Borzi, head of Supply & Materiel, checks over some of the 100 bikes that came into the warehouse in July. Because of the energy crunch, they are one of the hottest items that his division handles, says Borzi, "and right now, we have about 150 back orders." The men and women's bikes that have been purchased are both the conventional "no speed" bikes and the 3-speed variety. Bikes may be ordered by the departments, through an ILR with the proper signature authorization. -photo by Humphrey

#### Softball

#### League I

Sweathogs 13 - Ravens 6 Phoubars 14 - Strikers 5 Blue Jays 7 - Source I 4 Six Pax 9 - Old Timers 5

#### League II

DEEgenerates 14 - Dirty Sox 5 Titans 9 - Cardinals 8 AMD Bombers 27 - Charlie Browns 3 ROGA 14 - Source II 5

#### League III

Big Sticks 27 - Nuke Powers 13 Moles 31 - Binary Bombers 1

#### Mixed League

Turkeys 11 - TNT 4 Random Sample 13 - Confoozed 12 Who's On First 8 - Diamonds 7 Oh Kays 7 - E-Z Riders 4

#### Bicycling

The BNL Fall race is scheduled for Sept. 9, only a month away. Better start your training now - and don't forget to buy a

The Suffolk Bicycle Riders Association August schedule consists in part of their standard 20 mile Saturday rides, starting at 10:00 a.m. at Georges Bicycle Shop, Nesconset Hwy. at Stony Brook Rd. or Carl Hart Bicycles, Middle Country Rd. in Middle Island at the same time.

In addition there are three Sunday rides. all at 10:00 a.m. The one on Aug. 12 is to Sunken Meadow State Park; 35 hilly miles starting at the Smithtown Public Library. On Aug. 19 there's a choice of 20, 40 or 60 miles starting at George's Bicycle Shop, and on Aug. 26, a "women only" ride from George's Bicycle Shop. BNLer's are welcome on all rides. Contact Bob Monaghan, Ext. 4824/4688 or 744-5098 for additional

# Tour Features Inorganic Photochemistry

This weekend's mini tour will feature the Inorganic Photochemistry Group of BNL's Chemistry Department. This group is doing research on chemical reactions that can use sunlight to produce stable high-energy products. Recently, they successfully used solar energy to decompose water to hydrogen gas, a first step in designing systems that may one day produce hydrogen fuel using water and sunlight. Visitors will receive a more detailed explanation of the chemical reactions involved and learn about other BNL research on photochemical reactions.

In addition to this weekend's mini tour, visitors will view the 15-minute slide show entitled "Brookhaven's Quest" at Berkner Hall, take a guided bus tour of the Lab, and visit the Exhibit Center.

#### Classified Advertisements

#### **Placement Notices**

The Laboratory's placement policy is to select the bestqualified candidate for an available position, with consideration given to candidates in the following order of priority:(1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants.

The determination of the best-qualified candidate for available positions will be based upon education, experience and other job-related criteria. Such factors will be evaluated and measured against the demonstrable requirements of the available vacancy, as well as the Laboratory's Affirmative Action objectives.

The Laboratory is committed to a policy of Equal Opportunity in its selection and placement of personnel. Its objective is equality of opportunity in employment, training, and promotion without regard to race, color, religion, national origin, sex, age or handicap.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific staff positions; second, to give employees an apportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment, as indicated below. Except when operational needs require otherwise, positions will remain open for one week following publication date

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2882.

LABORATORY RECRUITMENT: Opportunity for present Laboratory employees.

1058. STAFF ASSISTANT (or SR. STAFF ASSISTANT) -Requires BS in business administration and several years of financial administration experience or the equivalent ability to perform budget, manpower, and procurement planning, control, and computerized reporting for technical or engineering projects. Will assume responsibility for administering the budget for NSLS project. Physics Department.

1059. SECRETARY - Requires AAS in secretarial science or equivalent experience performing general secretarial duties and ability to type technical reports. Will organize and type technical reports, expedite travel arrangements, and process administrative reports for two nuclear energy systems groups. Department of Nuclear Energy.

OPEN RECRUITMENT: Opportunity for present Laboratory employees and outside applicants.

1060. ENGINEERING ASSOCIATE - Requires BS/ MS in nuclear engineering, material science or chemical engineering or equivalent experience identifying and measuring properties of solidified low-level power reactor wastes. Ability to prepare and write technical reports is highly desirable. Will evaluate solidification agents, processes, and techniques for waste management research group. Department of

1061. SYSTEMS ENGINEER - Requires BS/MS in engineering, economics or energy policy analysis or equivalent ability to develop computer models and perform analysis of alternative energy systems. Will organize, analyze, and interpret energy data and prepare technical reports for the building conservation group with National Center for the Analysis of Energy Systems. Department of Energy and Environ-

1062. ELECTRO-MECHANICAL TECHNICIAN -Requires AAS or equivalent with ability to assemble components carefully. Background in computer operation or electronics desirable. Will be involved in assembly and test of ISABELLE magnets. Occasional shift work, ISABELLE Project/Accelerator Department.

#### **Autos & Auto Supplies**

77 CAMARO - a/t, a/c, AM/FM, ps/pb, excel cond. Glenn, Ext. 4217, 928-7619 eves.

70 EORD MAVERICK · a/t, 19-23 mpg, god \$250. Tom, 286-1899.

AUTO PARTS -Plym, Chrysler, tires, radiator, water pump, seats, etc; call for the part you need. 924-0960

73 GMC PICKUP - h.d. ½ ton, tool box, spares, must sell. Julie, Ext. 2942, 929-6460

68 OLDS CUTLASS - ps/pb, radio, good tires, runs very well. \$300. Irene, 589-6468 after 5.

69 FORD - 390 ci eng, good cond. \$175. Ext. 4539. 75 HONDA CB500T - 9000 mi, 2 helmets, excel cond. 281-5710 after 4.

TIRES- new, used, rims, repairs, Gillette, BF Goodrich, mag wheel service. F. Usack, Ext. 4798 lunchtime.

74 SUBARU DL STA WGN - new clutch, batt, AM/ FM cassette, radials & snow radials, front w/d. \$2000. Jerry, Ext. 4324, 724-0470.

SHOP MANUALS -69 Ford Sta Wgn Vols I thru V. \$5. Pat, Ext. 4255.

72 MERCURY STA WGN - 351 ci, ps/pb, a/t, towing pkg, roof rack, good cond, a/c. \$650. 821-0695. AM RADIO - Audiovox pushbutton new car radio.

\$18. Ext. 4532, 277-4091. 73 FORD CUSTOM - 4 dr sedan, V8, a/t, ps/pb, 1 owner, 20,800 mi, w/snows on wheels. \$1200 firm.

Fran, Ext. 3379, 589-3485 after 6.

70 FORD GALAXIE - runs well but needs exhaust, good on gas. Asking \$350. Davix, 751-5829 after 6.
77 HONDA CT90 - less than 350 mi, mint cond. \$575.
281-8274.

73 FORD LTD WGN - exceptional cond, 54,000 mi, a/c, radio, etc. \$1299. Ext. 7730, 286-8097.

70 FORD SQUIRE WGN - all elec, 429 ci, \$500 or make offer. John W., Ext. 4539, 298-8655.

70 FORD COUNTRY SEDAN WGN - ps/pb, good running cond. Asking \$500. AI, Ext. 3941, 744-9866.

78 FORD CLUB CAB - 150 P.U., 4 w/d, 4 spd, 2 sets tires, w/78 Marco camper. Make offer. 654-4631 after 4.

HITACHI AM RADIO - pushbutton, fits Honda Civic, never used. \$15. Naomi, Ext. 3699, 744-1081.

73 DODGE POLARA STA WGN - excel cond. \$475. 698-3569.

72 FORD TORINO WGN - good running cond, 4 dr, p/s. \$600. Bob, Ext. 3497.

64 JEEP WAGONEER - 4 w/d, 283-Chevy eng, 16 mpg, good cond. \$750. Kevin, Ext. 4810, 281-8031. 71 MERCURY MARQUIS - a/c, ps/pb, 4 dr. \$300. Ruth Ann, Ext. 7774.

76 VW RABBIT - excel cond, 39,000 mi, good gas mi. Ext. 2086.

TIRES - (2) ER78-14 steel radials on Ford rims, good cond. \$50. G. Vanderlaske, Ext. 4597/4598.

SM BLOCK CHEVY RACING PARTS - cams, pistons, rods, etc. Bill S., Ext. 4434.

76 FORD GRANADA - 2 dr, a/t, p/s, AM/FM-8 trk, 6 cyl, good on gas, excel cond. Ext. 4189, 472-0739.

71 DUSTER - good mpg, sm V8, good cond, excel transp. Asking \$900. Rhonda, Ext. 4106, 878-1731.

TIRES - (2) B78-13, (2) E78-14, mounted on Ford wheels; gas tank from Ford Maverick, almost new. Ext. 4592.

70 CHEVELLE - 350 ci, 2 bbl, 4 spd, posi, new shocks, exhaust, low mi on eng. Asking \$675. Glenn, Ext. 4445, 281-7873.

70 PLYMOUTH STA WGN - low mi, 18 mpg, immac cond, boat-carrying roof, new tires. \$880. Le, Ext. 2060, 821-1296.

TIRES- G78-14 b/w, brand new. \$50 takes both. Ext. 2964.

77 FORD PINTO WGN - 4 cyl, a/t, radials, AM radio, 23-25 mpg. \$2000. Ulrich or Gabriele, Ext. 4331/4131, Ext. 3231 eves.

75 PINTO - 4 spd, new radials, brakes, matt, muff, good cond. \$1800. Pete, 325-1545.

71 VW FASTBACK - orig owner, rebuilt eng last year, excel running & body cond, good mileage on reg, 2 new tires. 924-3066.

71 MACH I - 351-L eng, many new parts, good cond. \$1200. Ext. 2022, 277-9749 after 5.

72 PONTIAC CATALINA - 82,000 mi, 4 dr, a/c, air shocks, AM/FM/ST, reg gas, clean. Asking \$1200. 473-3626.

CAR A/C - add-on. \$75. Ext. 4058, 286-0436.

 $72\ \mbox{VEGA}$  - \$150 firm. Connie, 924-9171 after 6 & weekends.

HOODS - to fit 71-72 Chevy Vega, \$20; & 70-73 Camaro, \$40; orig owner's manuals for Ford & 65 Chevy, \$5 ea. Sue, Ext. 2050.

1970 BUICK SKYLARK - rebuilt eng, FM 8 trk, chrome rims, custom int, good cond. \$800. Joe Albergo, Ext. 2907.

71 PLYMOUTH FURY III - 360-V8, Edelbrock head, 4 bbl Holley carb, had accident, drivable, good for parts. \$125, 981-1195.

#### **Boats & Marine Supplies**

11' MOTH CLASS SAILBOAT - wood covered fiberglass, 1 main. Asking \$250. 289-0925.

17' FIBERGLASS SAILBOAT - deep roomy cockpit, ideal family day sailer. \$600. P. Fallon, 878-2266.

20' GARVEY - 7' beam, cabin, good work boat (heavy), glass over wood. \$650 or best offer. Lawrence, Ext. 4107, 472-0721.

18' SLICKCRAFT RUNABOUT - 50 hp Mercury eng, EZ Load trailer, good cond. \$1600. Les, Ext. 4074.

 $19\%^\prime$  THUNDERBIRD - fiberglass tri- hull, 1974, 115 hp Merc, low hrs, full canvas, trailer, Port Jeff slip. \$3400. Susan, 981-1195.

16' GARVEY - glass over wood. \$300. L. Lawrence, 472-0721 eves.

#### **Yard Sales**

SELDEN - 37 Belair Rd, Aug 11-12, many household items & furn, give-away prices. 698-0710.

MASTIC - 5 Ditmas Ave, off Babylon St, Aug 11-12, rain date Aug 18-19, 10 a.m.-4 p.m. 281-8538.

MIDDLE ISLAND - across st from Middle Island Fire Dept, Sat & Sun, 10-6, moving out of state. Connie, 924-9171 after 6 & weekends.

#### Miscellaneous

BIKE -  $23^{\prime\prime}$  Dawes Galaxy w/Bellweather Pannier bags. \$135. Chip, 744-2069 after 6:30 p.m.

SCREEN - glass beaded, Brumberger 40x40, like new. \$15. Carolyn, Ext. 7976.

RUGS - 9'x12', 1 blue, 1 green, \$10 ea; pine bookcase headboard, for twin bed, \$20. Ext. 3835, 399-4128.

VACUUM CLEANER - Sears best, very good cond. \$200 new, asking \$100. G. Meinken, Ext. 4460.

\$200 new, asking \$100. G. Meinken, Ext. 4460. A/C - 9000 BTU, 120v, excel cond. \$125. Ext. 4597. B/W TV SET - console, \$25; recliner frame, \$10; hair dryer, \$10; asstd items. Palais, 698-0576.

0LD RECORDS - \$1 ea; table mats (oval w/2 leaves),
\$25. Lawrence, Ext. 4107.
11 PC POT SET - stainless steel w/copper bottoms,

\$35. 924-0960 after 5.

KEROSENE LANTERN - & extra red globe, \$10; Summit Magazine, July 63-June 72. Dennis, Ext. 4259, 736-2534 eves.

new, \$30; 11 pcs stainless steel pots, new, still in box,

SOFA - 80" colonial, gold/brown, \$125; Gramophone, 1918 elec, offers over \$200; record cabinet, colonial, dk pine, shutter front, \$75. Ext. 2880, 654-

TENOR SAX - brand new. Asking \$275. Vinnie, 281-7230 after 5.

STOVE & WASHING MACHINE - both need a little work. \$25 ea. 331-1203.

LADIES BIKE - 10-spd Mossberg, med wgt, good cond. \$100. P. Oster. 286-1248.

FURNITURE - Herculon & pine, 2 matching chairs, plaid, \$250; 1 Lazy-Boy rocker recliner, blue, \$150; 1 oak &brass ship's-wheel table w/glass top, 42", \$200; excel cond. 581-7656, 277-3415.

MUSICAL INSTRUMENT AMP - "Sound," 2-12" Jensen spkrs, dual channels, cover, excel. \$175. Steve, 286-0534.

HALF-FARE COUPONS - American Airlines, Ext. 3835.

ESTEY ORGAN - dbl keyboard, good cond. \$100. 924-6582.

COCKATIEL - beautiful, young, rare albino colored bird, almost old enough to talk. \$125. 473-4791.

USED GO-KART - or go-kart frame, reasonable. 286-

9385.
REFRIG - Sears, coppertone, frost-free, side-by-side,

good cond. \$75. Ext. 4754, 689-8090.
BUFFET - Danish Mod, 5'1x36"wx30"h, walnut wood,

very nice piece of furn. \$150. Ext. 4532, 277-4091. UTIL TRAILER AXLE - w/rims (tires), 2 leaf springs, h.d. G. Hrabak, Ext. 3536.

24' POOL - above ground, 32" ext door, 4 lite, 3 panels below, 13/4" thick; 4-14" spinner wheel hub caps. 928-7769.

12 GAUGE RELOADER - Lee Load-All, used 5 mos. \$20. Neal, Ext. 4019.

MEN'S BICYCLE - light wgt 10-spd, Ig frame, 6 wks old, \$130 or best offer; Epiphone acoustic guitar, good action, w/case, \$100. Ryan, Ext. 3941.

BOA CONSTRICTOR - 5' long, quiet, odorless, affectionate pet in 30 gal tank. \$125. Ext. 7730, 286-8097. POOL FILTER - ¾ hp motor & sand filter. \$100. 473-9180.

CONVT SOFA - queen size, brown tweed, excelcond. \$80 firm. Ext. 3593.

ELEC DRILL - Rockwell %" variable spd reversible, gift, never used. \$24. B. Kennedy, Ext. 3617, 744-3703.

ANTIQUE CAR POSTERS - vintage junkyard or used car lot scene, conversation piece. \$2 ea. Frank, Ext. 2022.

FRENCH KEYBOARD TYPEWRITER - Hermes Swiss made manual portable w/case, almost new cond. \$50. Arthur, Ext. 4015.

A/C - York 8000 BTU, 7.5 amp, high efficiency, used 1 season. \$150. Bob, Ext. 4551.

8' SOFA - goose down, sturdy const, needs slipcovers. Best offer. 369-2151 after 6.

BAMBOO DEN - bar, tables, chairs; kitchen table, 6 chairs; bedrm set; ping-pong/pool table; bookcase; din table; fishing equipment; extras. 475-0722.

GOLDEN RETRIEVER PUPPIES - 7 wks, wormed, vaccinated, family raised, reasonable. Anita, Ext. 3389, 924-0723 eves.

ALTO SAX - Selmer Mark VI, good sound, very good cond. \$675. Kevin, Ext. 3998.

REFRIG - Whirlpool 12 cu ft, off white, not the prettiest but runs. \$50. Mike, Ext. 7941.

UPRIGHT PIANO - needs minor work, has class. Bargain for \$75. Bob, Ext. 4028, 725-1495.

SEARS COLDSPOT FREEZER - net capacity 17.4 cu ft, holds 600 lbs of food, perf cond. \$350. 744-5801.

ACOUSTIC GUITAR - Epiphone, good action, w/

case. \$100. Ryan, Ext. 3941.

MOVING SALE - couch, chest, elec broom, Olympia

typewriter, lamp & table. Ext. 2086, 744-4934.

CALICO CAT - spayed, clean, 2 yrs old. Free. 744-

MODERN COUCH - blk/white, chrome frame, excel cond. \$150. R. Cohen, Ext. 3480, 473-8717.

MANUAL TYPEWRITER - Royal portable, very good cond, \$30; Ig Ensolite sleeping pad, never usd, \$12.

744:2766.
DISHWASHER - GE top load, excel cond, \$100;
Perego baby carriage in 2 parts, \$40; playpen, jump

seat, reasonable. 924-3303.
PICTURE FRAME - ornate Victorian "gold," 45"x40" o.d., \$25; Coleman catalytic heater, 3000-5000 BTU, new, \$20. Fred, Ext. 4096.

STEREO SYSTEM - Fisher 250T (100w) rcvr, Dual 1212 turntable, ADC 660E cartridge, Scott S-10 spkrs, excel cond. \$345. Anne, 924-6015.

GAS DRYER - 7 cu ft Kenmore, used 2 yrs, \$90; rug, about 9'x12', yellow, \$40. Ext. 3741, 928-8465.

ASSTD CANDLEMOLDS - Ig size, best offer; 35mm projectors, \$15, \$30. Ext. 4058, 286-0436.

BEDRM SET - Mediterranean, dresser, chest, night table, bed. \$400. 821-9192 after 6 weekdays.

METAL BED FRAME - twin size, on plastic wheels, \$10; Master Pogo exerciser, \$7. 727-3608. COLEMAN TENT - 7x9 cabin, sleeps 4, 2 cots, hibachi. \$100. Connie, 924-9171 after 6 & weekends.

MEN'S BIKE - 10 spd, good cond. \$75. Harvey, Ext. 3713.

ICE BOX - sink & 12 gal water "ank for RV, w/plywood. \$90 or best offer. Sue, Ext. 2050.

SURF-CAST POLE - 11'4" Garcia, Penn spinning reel,

tackle box, new. \$65. Chuck, Ext. 4095.

PIANO - Yamaha grand, 6 ft, mint cond. Ron, Ext. 2621, 744-8334.

SURFPOLE - 9' Diawa rod \$ reel w/mono filament,

new, \$35; electool caddy, \$3. 475-0144.

REEL MOWER - old Jacobson, needs work, chain & belt drives, clutch, etc; good go-cart project. Tom, Ext. 4674, 286-2505.

CONSOLE STEREO - custom mahog, Harmon-Kardon rcvr, Garrard turntable, excel cond. 929-6765 after 6.

GOLF SHOES - size 9, \$10; camp cooler, \$5; Polaroid, \$5; Penn reel, \$10; golf outfit, \$65. Ext. 4597.

DRUM SET - Gretch, 4 piece, hvy duty hardware, high hat, mother of pearl, paiste cymbal, excel cond. \$500. Joe Albergo, Ext. 2907.

WASHING MACHINE - & dryer, good cond. \$100. 981-2480.

SOFA - nearly new, sm tables, lamp. Ext. 4305, 286-2320.

#### Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.

#### For Sale

MILLER PLACE - immac 4 bedrm colonial, L/R w/fp, formal D/R, fam rm, 1½ baths, full bsmt, 2-car gar, flagstone patio, wooded area. \$51,900. Ext. 3305, 734-5527.

ROCKY POINT - Tide area, 3 bedrms, ranch w/finbsmt, ½ acre, prvt beach, near shopping center, many extras. Sam, Ext. 3911, 821-1810.

N. SHIRLEY - custom colonial, 4 bedrms, L/R, formal D/R, fam rm w/fp, eik, 1½ baths, bsmt, gar, more than ½ acre, s/s, 5 min to BNL. Ext. 3284.

MASTIC ACRES - 6 rms, full bsmt, baseboard heat, usable attic, ¼ acre. Ext. 2547, 281-5498.

SELDEN - hi-ranch plus income apt, 2-car gar, 2 baths, central air, w/w, mirrored L/R wall & hall, deck fenced yard, patio, extras. Ext. 4129, 732-8042.

SHIRLEY - 75x125, custom built hi-ranch, 3 bedrms, 2 full baths, formal D/R & fam rm w/fp & bar, huge eik, 2-car gar, enclosed patio, many extras. Ext. 3284, 281-3945.

SO. SETAUKET - 4 bedrm Jamestown Ranch, bsmt, 3 Village Schools, den w/fp, 2-car gar, fenced, extras. \$46,500. Paula, Ext. 2253, 698-8950, 473-8433.

BROOKHAVEN HAMLET - charming older home, S. Country Rd, 3 bedrms, window seats, 29' L/R, D/R, eik, 2 fp, screened pch, fin bsmt w/bar, 2-car gar w/extra rm, chicken coop, 0.6 acre, lg veg & flr gdn, very low taxes, 8.5% mtg. Ext. 2633, 286-1056.

FLORIDA - Inverness Highlands West, 80x120 lot. Lists for \$3580, sell for \$3300 or best offer. Susan, Ext. 3404, 981-1195.

CORAM - Tanglewood Hills, 4 bedrms, 15x20 den w/fp, L/R-D/R w/w, eik, 2 baths, 2-car gar, fenced, 4 appl, 1/10 acre, gas heat, SD #12. Asking \$38,000. Ext. 3404, 698-4966.

RIDGE - 3 bedrm custom ranch, L/R, D/R, 1½ baths, kit, on ½ acre w/2-car gar. \$41,000. Ext. 7500, 924-8258.

SETAUKET - N of 25A, 4 bedrms, 2-car gar, 2 baths, L/R & fam rm ea w/fp, D/R, 3/2 acre landscaped. \$70,000 firm. Ext. 2337, 751-1283.

BELLPORT VILLAGE SOUTH - peautiful mod wellinsulated 4 bedrm colonial in gas-saving location on quiet street close to stores, water, tennis & golf, assumable mtg. Mid \$50's. Ext. 7730, 286-8097.

RIDGE - condominium-townhouse, 2½ mi from BNL, 2 bedrms, 5 appl, a/c, w/w, excel cond. \$2500 over mtg. 924-7963 after 6.

SOUTH SHIRLEY - 3 bedrms (possible 4th), 1 full + 2 half baths, L/R, D/R, eik, den w/fp & woodburning stove, bsmt, 2-car gar, many extras, 7 mi from BNL. \$37,000/negotiable. Ext. 3827, 281-0804 eyes.

BROOKHAVEN HAMLET - custom cape, 2 bedrms down, 2 bedrms up ready to finish, L/R w/fp, kit, D/R, fin bsmt, blk driveway, fenced, pool, low taxes, fully landscaped. \$42,500. Ext. 2043, 286-8923.

CORAM - 4 bedrm cape, eik, D/R, Ig L/R, 2-car gar, fenced-in prop,  $\frac{1}{2}$  acre. \$38,900. Ext. 2951, 473-1585 after 6.

SELDEN - cape cod, 3 bedrms + fin attic, Ig eik, detached 2-car gar, ½ fenced acre, non-development, low taxes. \$40,500. Ext. 2047, 929-8317 after 5.

FT MYERS, FLORIDA - 2 bedrms, 1 bath, L/R, Florida rm, din area, patio, a/c, close to beaches, shopping & churches. 654-2972.

BELLPORT - S/S Country Rd, 9 rms, 4-5 bedrms, den, 3 baths, Ig eik, fp, gas heat, 2-car gar, Ig breezy front porch, huge trees. Anne, Ext. 3404, 286-3764.

ST. JAMES - Head-of-the-Harbor, 5 bedrm 2-story older home, 2½ baths, 3 fp, formal D/R, 1¾ secluded acres, Ig flr & veg gdns. \$62,000. Anne, Ext. 3404, 584-5685

CENTEREACH - 3 bedrms, L/R, D/R, eik, bsmt, gar, OHW, new roof, % acre, 8½% VA mtg, low cash over. Asking \$33,000. Ext. 3404, 981-1195.

E. PATCHOGUE - S/S Country Rd, 2 or 3 bedrms, fp, screened porch, alum siding, full bsmt, garage, low taxes, assume mtg. \$35,500. 286-2905 or Ext. 7992.

#### For Rent

VT CHALET - beautiful furn, stone fp, woodland hiking trails, swimming pond, lake, canoeing, fishing, near golf, tennis, antiques, alpine slide, rent weekly. Ext. 3448, 757-5599.

ROCKY PT - 4 bedrms, 1 yr lease, furn, ½ mi from beach, yard, sauna, bsmt, avail Aug 15, couples only, pets OK. \$275 + util. Ext. 2906, 246-5011 days, 821-0662 eves.

SOUND BEACH - 3 bedrms, 2 baths, L/R, D/R, kit & den, gar, patio, 3 min walk to prvt beach, avail Sept 1. \$350. Ext. 2065, SH4-2651.

MASTIC - 2 rms, bath, prvt ent, single or couple, no pets or children, all util, a/c. \$225. Avail Sept 1. Ext. 3289, 281-9411.

BAYPORT - Fairview Ave, very good school dist, 3 bedrm house, Sept 79-June 80. Ext. 4203, 472-2020.

YAPHANK - duplex apt, L/R, D/R, 2 bedrms, full bsmt, 5 min from Lab, immediate occupancy. \$360/mo incl heat. Ext. 3313, 581-2909.

NO. PATCHOGUE - 2 bedrms, carpeted L/R, extra lg eat-in country kit, full bsmt, fenced yard. \$375. Ext. 7995, 654-2083.

NO. PATCHOGUE - 2 bedrms, L/R, D/R, fenced yard, quiet st. gool. \$330/mo. + util. 475 1964

quiet st, appl. \$330/mo + util. 475-1964.

PATCHOGUE - 4 bedrms. \$400 plus util. 289-4815.

#### Wanted

HOMES - for puppies, 6 wks old, blk Lab/Shepherd mix. Free. Charlie, Ext. 4758.

CUB SCOUT UNIFORM - shirt, any size/cond, need left front panel. Dennis, Ext. 4259, 736-2534 eves.

BEACH UMBRELLA - inexpensive. 331-1203. HOMES - 3 beautiful cats need homes, 2 Persians,

1 calico, shots & neutered. 289-9892.
HOUSE SITTER - dog walker, 3 wks in Oct. Jerry,

1 BEDRM OR STUDIO APT - prefer Pt Jeff, Stony Brook or Patchogue area. Ext. 4528. AUTO RELATED LITERATURE - owners & repair man-

uals wanted. Mike, 281-3460.
GOOD HOME - for young, female dog, white hair, mixed breed (Samoyan-Shepherd). 751-1130.

ENGLISH RIDING SADDLE -Stueben or similar, good cond please. 929-3363.
HOUSEMATE - share 4 bedrm, 3 bath unfurn house

in Coram. \$155 + share util. Ext. 2521/4742.

ROOMMATE - for house in Rocky Pt near beach, avail

Sept 1. \$100 + util. John, 821-1296.

BABYSITTER - Shoreham, start Sept, after school & vacations, 2 children 8 & 10. Ext. 3325, 744-7493.

MEAT GRINDER - hand operated preferred. Ext. 2095. ELEC PORTABLE TYPEWRITER - needed for college. Ext. 2381.

BASS CLARINET - for student, reasonable. 744-5553.
BABYSITTER - for 3 mo old infant & 5 yr old, Wed afternoons beginning Aug 29, possible add'l times, my home in Shoreham. Ext. 3809, 744-8609.

WINEMAKERS UNITE! - anyone interested in pooling information, grape purchase & equipment. Tom, Ext. 4674, 286-2505.

BABYSITTER - for 5 yr old, 3:30-5:30, Bellport Village. Claudia, 286-8530 or Ext. 3044.

# Car Pools

Ext. 4217; Pierre, Ext. 4229.

PT JEFF VILLAGE - join 3 person car pool. Glenn,

PT JEFF STA - would like to join car pool. Julio, Ext.

QUEENS/SOUTHERN STATE TRANSVAN - currently has two vacancies. Interested persons should call Fred Williams, Ext. 3254.

# Lost & Found

LOST - 1 portable red microphone belonging to Exhibit Center. If found please call Ext. 4049 or 2400. LOST - Seiko watch, stainless steel, wide band, near tennis court grea. Bob, Ext. 3644.

#### Services

BABYSITTING - high school girl babysits most days & eves, Shoreham area. Jenny, 744-3744.

PAINTING - int/ext, 2 coat look, 1 coat price. Nick, 286-9249 after 5.

QUALITY CHILD CARE - my home (Ridge), specialize

in infants, professional training, experience. Sandy, Ext. 3110.

CHILD CARE - I will love & care for your 3 or 4 yr old child in my home in Shoreham starting in Sept. Carol,

ANTIQUE CARS - avail for hire, specializing in weddings. Mike, 281-3460.

BABYSITTING - mother will babysit in her home, Manorville, off Exit 69. 727-4994.

CHILD CARE - for teacher's child, age 3-4, my home in Shoreham. Loretta, 744-5553.

BABYSITTING - responsible, experienced sitting in your home 8 a.m.-5:00 p.m., Mon-Fri w/light cleaning. Patty, 928-1604 days, 821-1296 nights.